

SOLID-STATE IMAGE PICKUP APPARATUS

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to a solid-state image pickup apparatus and image pickup system and, more particularly, to a solid-state image pickup apparatus having a pixel including a photoelectric conversion unit, a read transistor for reading a signal
10 from the photoelectric conversion unit, and a reset transistor for supplying a reset signal to the input portion to reset the input portion of the read transistor, and an image pickup system using such the apparatus.

15 Related Background Art

Conventionally, a CCD has been often used as a solid-state image pickup apparatus because of its high S/N ratio. On the other hand, a so-called amplification type solid-state image pickup apparatus that is advantageous in a simple manner of use or low power consumption has also been developed. An amplification type solid-state image pickup apparatus supplies signal charges accumulated in a light-receiving pixel to the control electrode of a transistor in the pixel unit and outputs an amplified signal from the main electrode. Examples of amplification type solid-state image pickup apparatus

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